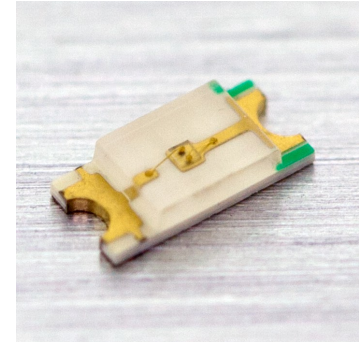


# Winger Electronics WEOGN01-C2M 1206 SMD LED



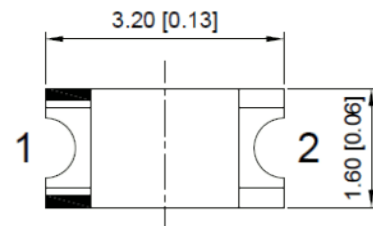
**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
SENSITIVE DEVICES



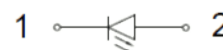
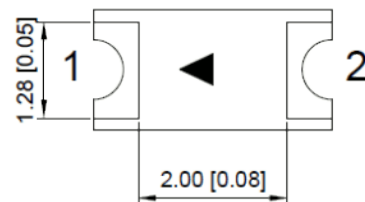
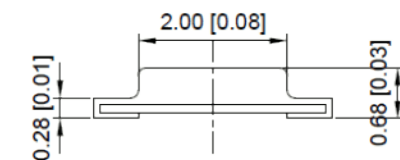
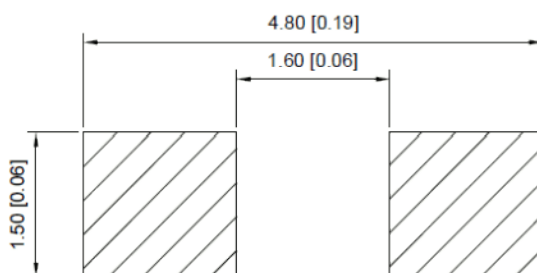
## Description

- 1206 SMD LED
- Emitting Color: Green

## Dimension figure



## Recommended Soldering Pattern



Unit: mm  
Tolerances:  $\pm 0.25$ mm

## Absolute Maximum Ratings

| Item                       | Symbol    | Absolute Maximum Rating | Unit |
|----------------------------|-----------|-------------------------|------|
| Forward Current            | $I_F$     | 30                      | mA   |
| Peak Forward Current *     | $I_{FP}$  | 100                     | mA   |
| Reverse Voltage            | $V_R$     | 5                       | V    |
| Power Dissipation          | $P_O$     | 100                     | mW   |
| Operating Temperature      | $T_{OPR}$ | -40 ~ +85               | °C   |
| Storage Temperature        | $T_{stg}$ | -40 ~ +100              | °C   |
| Lead Soldering Temperature | $T_{SOL}$ | Max. 3 sec @ 300        | °C   |

\* $I_{FP}$  Conditions: 1/10 Duty Cycle, 0.1ms Puls Width

## Typical Optical/Electrical Characteristics

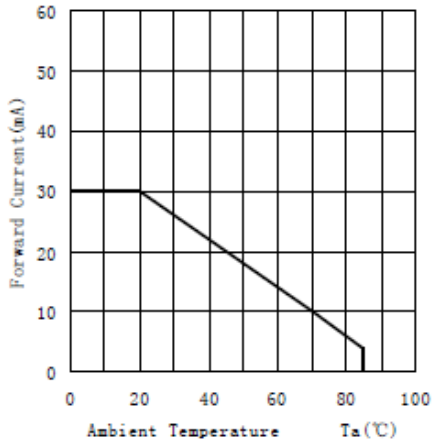
| Item                        | Symbol       | Condition  | Min. | Typ. | Max. | Unit    |
|-----------------------------|--------------|------------|------|------|------|---------|
| Forward Voltage             | $V_F$        | $I_F=20mA$ | 2,6  | 3    | 3,4  | V       |
| 50% Power Angle             |              |            | -    | 140  | -    | deg     |
| Luminous Intensity          | $I_V$        |            | 600  | -    | 900  | mcd     |
| Dominant Wavelength         | $\lambda_D$  |            | 515  | -    | 525  | nm      |
| Color Temperature           | $T_C$        |            | -    | -    | -    | K       |
| Recommended Forward Current | $I_{F(rec)}$ |            | -    | -    | 20   | mA      |
| Reverse Current             | $I_R$        | $V_R=5V$   | -    | -    | 10   | $\mu A$ |

Notes:

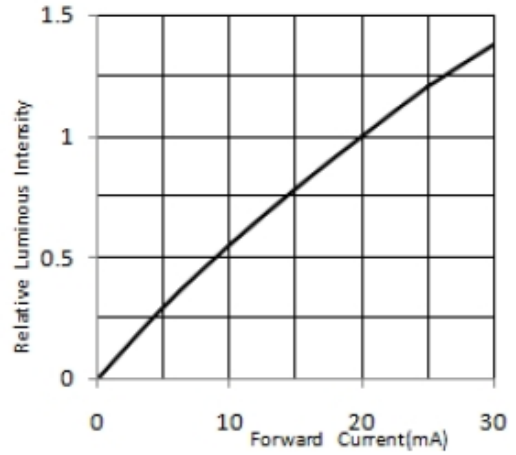
1. Absolute maximum ratings  $T_a=25^\circ C$
2. Measurement Tolerances of Forward Voltage  $\pm 0.1V$
3. Measurement Tolerances of peak wavelength  $\pm 2.0nm$
4. Measurement Tolerances of luminous intensity  $\pm 15\%$
5. Measurement Tolerances of angle intensity  $\pm 15\%$

# Typical electrical and optical characteristics

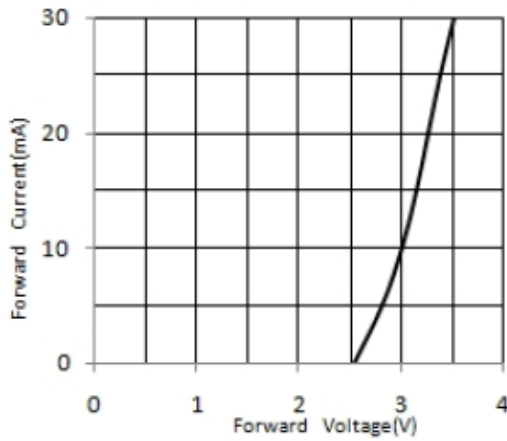
Ambient Temperature vs. Forward Current



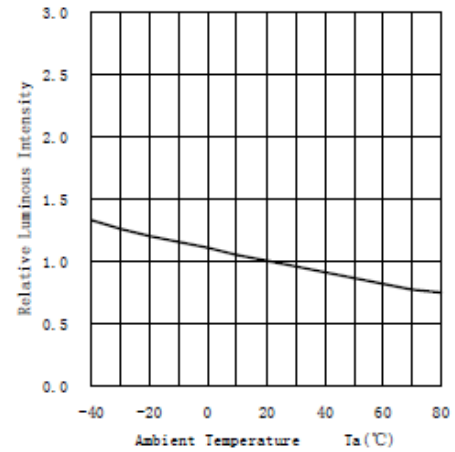
Forward Current VS. Relative Intensity



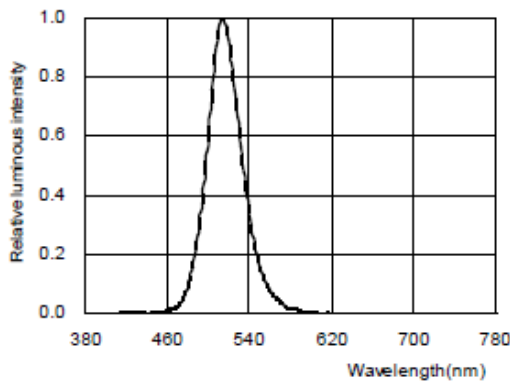
Forward Voltage VS. Forward Current



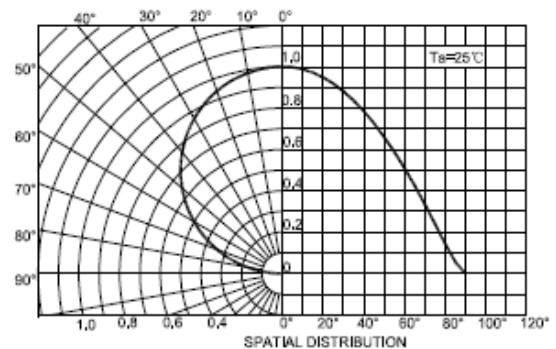
Ambient Temperature VS. Relative Intensity



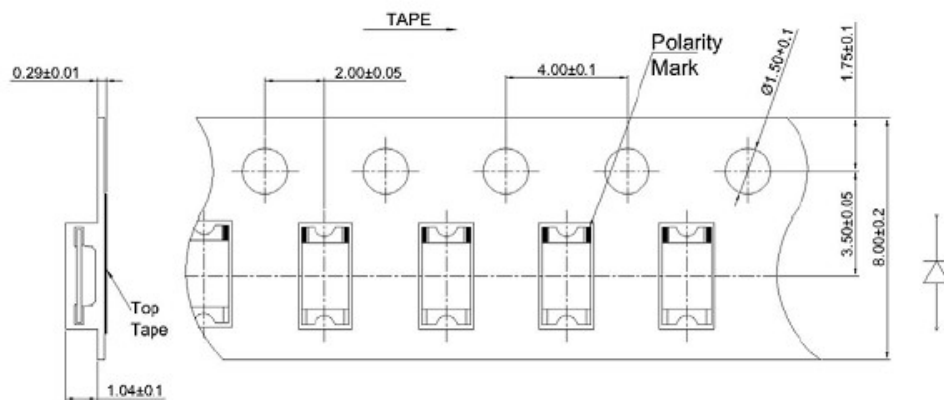
Relative spectral emission



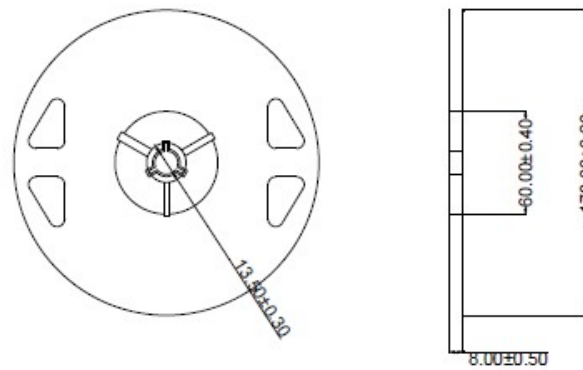
Radiation diagram



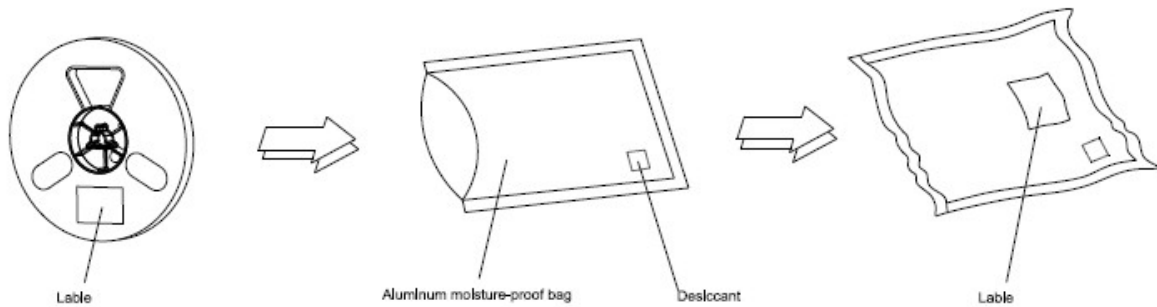
## Tape reel specifications



### Reel Dimensions

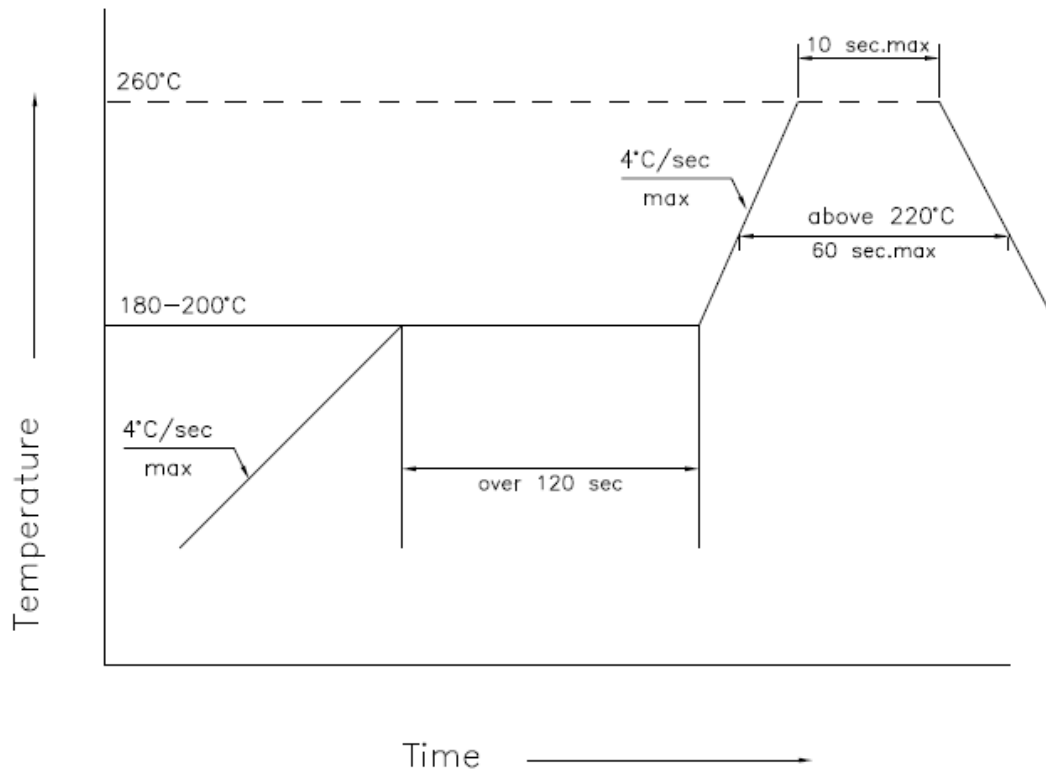


### Moisture Resistant Packaging



QTY: 3000pcs per reel

## Reflow Soldering Profile



## Warranty

- (1) Perform an acceptance inspection on arrival of the goods. Return the defectives if any stipulating the disqualification and quantity.
- (2) Embedding the LEDs into the application and the verification of life and other qualities in practical use shall be executed by user.
- (3) Do not use the LEDs for the applications that require the higher reliability and security and that may endanger life and health by the breakdown and the malfunction. Seller shall not bear any responsibility or liability with respect to any claims and damages caused by user's usage of the LEDs without following our intended purpose or any written consent.
- (4) Seller shall not bear responsibility for any damages or defects caused by improper operation at the current in excess of the absolute maximum ratings that are not covered by warranty.